

# Patti's Safe Stand

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## **OVERVIEW**

You are to design an beautiful, functioning stand for the safe in the office. It is a present to Patti, therefore we are going to work really hard and do a great job for her, because we love her. Your stand will be structural steel and may have any decorative skin you choose. It can also just be the frame with a shelf.



## **CONSTRAINTS**

The safe stand needs to be hold a safe with a base 14"x 14".

The stand must be between 22" and 32" in height and has to be between 14" and 18" in depth. It can be anything over 14" wide and must contain at least one shelf for storage. The frame will be designed and built with steel.

## **PARTS OF PROJECT**

Understanding Materials Keynote for Steel

Three Design Idea Options (Quick Sketch)

Final Stand Model

Final Stand Model with Safe in Cabinet

2D Construction Documents

## **LIST OF PART BREAKDOWN**

Understanding Materials Keynote (20pts)

Keynote follows the template provided complete with images of every option of steel and necessary information.

Three Design Options (15pts)

You are to flush out three completely different design ideas for what your safe stand. They just need to be basic models, not rendered.

Final Stand Model (20pts)

The final model needs to show materials used, represent accurate size of materials, and how they fit together. If there is an exterior skin for your model, leave it off in this model. I need to understand how the frame will be constructed.

### Final Stand Model with Safe in Cabinet (10pts)

Put your model into the cabinet we built with a safe sitting on top exactly how you would mount the safe in the cabinet.

### 2D Construction Documents (30 pts)

You will draw working documents (construction documents) as directions to build the stand. These drawings need to contain dimensions and callouts to accurately describe how the stand will go together. You will need three detail drawings. The front view, side view, and either the top, base, or a closeup. You can do these drawings in SketchUp or Pages or by hand.

### Final Presentation (25 pts)

Keynote or Poster that brings all elements of the project together to display and present.